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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/076,182

Filing Date February 12, 2002

First Named Inventor Larry Fabiny

Art Unit 2633

Examiner Name D. Single

Attorney Docket Number 019930-001010US

(use as many sheets as necessary)

Page 1 of 1

Substitute for form 1449/PTO

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|          | Document Number |   |                                |  |   |  |  |
| Examiner | Cite<br>No.     | Number Kind Code <sup>3</sup> (# known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Retevant Passages or Retevant<br>Figures Appear |  |  |
| DS       | A1              | US-6,529,307 B1                         | 03-04-2003                     | Peng et al.  |   |  |  |
|          | A2              | US-                                     |                                |  |   |  |  |

| FOREIGN PATENT DOCUMENTS |      |                           |                     |                                    |                                |                             |   |                |
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| Examiner Cite            | Cito | Foreign Patent Document   |                     |                                    | Name of Patentee or            | . Pages, Columns, Lines,    |   |                |
| Initials*                | No.1 | Country Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>†</sup> (ill known) | Publication Date<br>MM-DD-YYYY | Applicant of Cited Document | Where Relevant Passages<br>or Affevant Figures / Foorar | T <sup>o</sup> |
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| MFORMATION DISCLOSURE  |                   |               |                         | Filing Date            | February 12, 2002            |  |  |  |
| STATEMENT BY APPLICANT   |                   |               |                         | First Named Inventor   | Fabiny, Larry                |  |  |  |
|  |                   |               |                         | Art Unit               | 2633                         |  |  |  |
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|          |             | ·   | U.S. PATENT D    | OCUMENTS   |   |
|----------|-------------|---|------------------|--|---|
| Examiner | Cite<br>No. | Document Number  Number Kind Code <sup>2</sup> (if known) | Publication Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant |
|          | No.'        |   |                  |  | Figures Appear  |
| 05_      | AA          | US-5,724,165  | 03/1998          | Kuang-Yi Wu  |   |
| DS       | AB          | US-5,862,287  | 01/1999          | Stock et al.                                       |   |
| 05       | AC          | US-5,912,748  | 06/1999          | Wu et al.  | <u> </u>  |
| DS       | AĐ          | US-6,249,364  | 06/2001          | Martin   |   |
| DS       | AE          | US-6,275,623  | 08/2001          | Brophy et al.                                      |   |
| bs       | AF          | US-6,381,387  | 04/2002          | Ronald G. Wendland, Jr.                            |   |
|          | AG          | US-   |                  |  |   |
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| FOREIGN PATENT DOCUMENTS |              |                |                     |                                   |                                |   |  |          |
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| Application Number     | 10/076,182             |  |  |  |
| Filing Date            | February 12, 2002      |  |  |  |
| First Named Inventor   | Fabiny, Larry          |  |  |  |
| Art Unit               | 2633                   |  |  |  |
| Examiner Name          | Not Yet Known D. Singh |  |  |  |
| Attorney Docket Number | 019930-001010US        |  |  |  |

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| DS       | AA           | US-5,414,540                            | 05/09/95         | Patel et al.                | •   |
| DS       | AB           | US-6,917,625                            | 06/29/99         | Ogusu et al.                | <del></del>   |
| 05       | AC           | US-6,307,657                            | 10/23/01         | Ford                        |   |
| DS       | ΑĐ           | Appl. No. 09/442,061                    | 11/16/99         | Weverka et al.              |   |
|          | AE           | US-                                     |                  |                             |   |
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|   | Sheet      | 2             | of          | 2             | Attorney Docket Number | 019930-001010US                    | .9      |  |  |

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|                        |              | OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS   |    |
| Examiner<br>Initials * | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | т2 |
| <b>D</b> \$            | BC           | SUN, Z.J., et al., "Demultiplexer with 120 Chanels and 0.29-nm Channel Spacing," IEEE Photonics Technology<br>Letters, Vol. 10, No. 1, January 1998, pp. 90-92  |    |
| Þ۶                     | BD           | NISHI, I., et al., "Broad-Passband-Width Optical Filter for Multi/Demultiplexer Using a Diffraction Grating and a Retroreflector Prism," Electronics Letters, Vol. 21, No. 10, May 1985, pp. 423-424  |    |
| b۶                     | BE           | PHILLIPPE, P., et at., "Wavelength demultiplexer: using echelette gratings on silicon substrate." Applied Optics, Vol. 24, No. 7, April 1985, pp. 1006-1011   |    |
| bs                     | BF           | Piezo Systems, Inc. Catalog #3, 1998, pp. 1, 30-45  |    |
| D\$                    | BG           | FORD, JOSEPH E., et al., "Wavelength Add-Drop Switching Using Tilting Micromirrors," Journal of Lightwave Technology, Vol. 17, No. 5, May 1999, pp. 904-911   |    |
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